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# Agricultural Libraries Information Notes



National  
Agricultural  
Library

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of Agriculture  
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photo: J. Swab

Ronald Young, Audio/Visual Information Specialist, NAL Special Collections, trains Phyllis Sparks, volunteer and retired University of Maryland Professor of Mathematics, on the inputting of data for images in the Pomological Project laser video disc.

## NAL Recognizes Volunteers and Employees for Contributed Work

In recent years many persons from communities in the Washington, DC, area, especially suburban Maryland, have contributed large amounts of their own time and energy as volunteers working on programs or projects of the National Agricultural Library. These contributions have enhanced the services of the Library and have improved the quality and timeliness of many projects, in some cases enabling their completion.

On April 30, Joseph H. Howard, Director of NAL, held a reception to honor persons who performed services for the Library and the public as volunteers. Mr. Howard spoke briefly to the assembled volunteers and NAL staff concerning the valuable benefits the Library and its users receive through generous and dedicated volunteer work. He thanked the volunteers for all they have done. NAL Associate Directors and Branch or Section Heads introduced the volunteers who work in Library units and briefly described their backgrounds and the work they have been doing at NAL.

The reception was one of several the Library has held in recent years since the volunteer program was initiated. Some of the volunteers have previously been recognized in *ALIN*, when information was available and space per-

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mitted. The accompanying photographs and information identify the volunteers at the April 30 event, a previous reception, and some who could not attend the receptions. Unfortunately, *ALIN* has not been able to obtain photographs or information on all of the volunteers, but does wish to report that NAL thanks and honors all of them.

NAL's own staff members also volunteer their services in the communities where they live. Just before leaving USDA, former Secretary of Agriculture Clayton Yeutter recognized NAL staff in the President's "Points of Light" program. See the articles by Brian Norris on pages xx and yy of this issue of *ALIN* for more on these volunteer programs.

These articles are presented to *ALIN* readers to recognize and honor the volunteers, to inspire readers to volunteer their own services, and to inform other libraries and information centers about the kinds of contributions volunteers can make to their organizations.

— Joseph N. Swab



(Left) Mary Reese, Executive Director, Prince George's Voluntary Action Center: this county organization has been of help in obtaining volunteers to work at NAL.

photo: J. Swab

## National Agricultural Library Looking for Volunteers

Ever wonder how a world-class research library works? If you have, there may be an opportunity to learn how, from the inside.

The National Agricultural Library, the largest agricultural library in the world, has a recurring need for volunteers to work in a number of interesting and fulfilling positions, according to Mary Silva, coordinator of NAL's volunteer program. "We can use volunteers in just about all phases of library operations, from doing research and working with CD-ROM and laser disc technology to reshelving books," Silva said.

With the Library of Congress and the National Library of Medicine, NAL is one of three national libraries of the United States. It maintains a collection of over two million volumes and receives about 26,000 periodical titles annually. NAL also is active in developing new electronic systems for managing information and is considered a leader in this type of technology.

"As part of its volunteer program," Silva said, "NAL provides volunteers with the training and resources needed to complete assignments. NAL staff also are available to give technical advice when questions arise. The staff work closely with NAL volunteers and rely on volunteer efforts in many NAL special projects. Volunteers, who range from high school and college students to retired people, are an important part of NAL."

NAL attempts to match a volunteer's skills and interests with the needs of the library. In some instances, college credits can be earned by volunteers on certain NAL projects.

People interested in the NAL volunteer program should call Silva at (301) 504-5248, or write:

Mary Silva  
National Agricultural Library, Room 200  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351

Applicants to NAL's volunteer program will receive consideration without regard to race, color, national origin, religion, sex, age, marital status, disability, or any other nonmerit factor.

— Brian Norris



photo: J. Swab

Mike Cassidy



photo: J. Swab

Suzanne De Muth

## Volunteers List

### Agricultural Trade and Marketing Information Center (ATMIC)

Rebecca Bristow, provided general support for ATMIC.

### Alternative Farming Systems Information Center (AFSIC)

Mike Cassidy, an employee of the *Washington Post* in classified advertising, works with AFSIC compiling a special annotated bibliography on sustainable agriculture.

Suzanne De Muth, a technician in the Vegetable Lab at the Agricultural Research Service (ARS), worked with AFSIC on a variety of work, including updating the "Herbs" *Agri-Topic*.





photo: J. Swab

Ray Stevens



photo: J. Swab

Christophe Tant



photo: J. Swab

Anita Reinsdorf



photo: J. Swab

Rachel Algaze

Judy Keane, a part-time employee of ARS and graduate student at the University of Maryland, worked with AFSIC providing general support and compiled "Plants for People....," *Special Reference Brief-- 92-04*.

Ray Stevens, retired special education teacher and businessman, worked with AFSIC reviewing and annotating an audio-visuals list relating to sustainable agriculture; also worked for the **Youth Development Information Center**.

Christophe Tant, a student from France finishing his education in the U.S., worked with AFSIC and co-authored several AFSIC pubs.

#### **Animal Welfare Information Center (AWIC)**

Anita Reinsdorf, a specialist in wildlife management and marine mammals, and volunteer at the National Aquarium in Baltimore, worked with AWIC developing a resource list for teachers on animal welfare issues, a fact sheet on animal welfare organizations, and supporting AWIC projects.

#### **Aquaculture Information Center (AIC)**

Rachel Algaze, a retired ARS secretary, provided general clerical and reference searching support in AIC.

Nalini Basavaraj, a cooperative student from the University of Maryland working in the Cataloging Branch of NAL, volunteered to work in AIC, where she helped with the national survey, "Extension Review of Aquaculture Information Needs."

Linda Braun, a full-time horticultural biology laboratory technician in the ARS Vegetable Lab, works with AIC providing general support in reference and publications projects. She has contributed more than 530 hours over a period of several years.

Florence Cox, retired program service assistant, ARS, provided clerical support and handled publications requests for AIC.

Henry Cummings, who works for a group of organizations in aquaculture, volunteered with AIC to coordinate the papers for an international aquaculture conference.

Diane Fleck, assists AIC with online and CD-ROM database searching, desktop publishing, wordprocessing, utilizing software packages, preparing information packets, responding to title requests, and answering reference questions



photo: J. Swab

Nalini Basavaraj



photo: J. Swab

Linda Braun



photo: J. Swab

Florence Cox



photo: J. Swab

Henry Cummings



photo: J. Swab

**Diane Fleck**



photo: J. Swab

**Jake Jacobs**



photo: J. Swab

**Elise Kaplan**

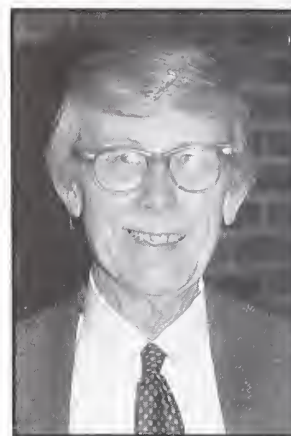


photo: J. Swab

**David Lincicome**

Mary Hourihan, a research textile fiber technologist retired from ARS, worked with AIC providing reference and publications support.

Jake Jacobs, a full-time employee of the ARS Fruit Lab, works as a volunteer with AIC to do computer related activities, especially desk top publishing and graphics support.

Elise Kaplan, a University of Maryland Library School graduate assistant, works with AIC on the USDA Science & Education Evaluation Study doing a national profile of information services in aquaculture.

Dr. David Lincicome, visiting scholar at NAL, retired Howard University professor of parasitology and guest scientist at ARS, worked with the coordinator of the AIC while working on publications related to sheep and goats; also worked with NAL Special Collections and exhibited two rare breeds of sheep on the opening day of the Minor Breeds Exhibit.

Dwayne Lindsay, employed in a private library, worked with AIC on an historical review of aquaculture.

Thomas Moran, a budget analyst retired from the Animal

and Plant Health Inspection Service (APHIS), provided support related to aquaculture legislation and fiscal advice to AIC.

Jess Otley, who was self employed, provided general support in AIC to learn about aquaculture in preparation for work in the peace corps.

Charlotte Saltzberg, retired from ARS, works with AIC on the "List of Aquaculture Publications for the United States and Japan Natural Resources Aquaculture Panel" and provides general support to the center.

Mel Saltzberg, a dBase expert retired from the National Aeronautics and Space Administration (NASA), provides dBase support as needed by AIC.

Lee Struglia, retired biochemist from Harry Diamond Labs, answers reference questions for AIC, and helps with new AIC publications.

### **Cataloging Branch**

Martina Lydon, volunteered as a cataloger for NAL, and is now employed by NAL as a full-time cataloger.



photo: J. Swab

**Charlotte Saltzberg**



photo: J. Swab

**Lee Struglia**



photo: J. Swab

**Martina Lydon**



photo: J. Swab

**Bonnie Rodney**





photo: J. Swab

Jeff Orbach



photo: J. Swab

Veronique Quillien



photo: J. Swab

Cam Calvert



photo: J. Swab

Ray Schar

Bonnie Rodney, a library science student at Rutgers and previous public school teacher, provides support for serials cataloging.

### Document Delivery Services Branch (DDSB)

Marie Walter, formerly of Irvine Sci-Tech Books, Irvine, CA, is working with DDSB on a project to shift and reorganize NAL stacks.

### Food & Nutrition Information Center (FNIC)

David Haytowitz, a nutritionist with Human Nutrition Information Service, USDA, is working with FNIC to update a *Nutri-Topic* on "Food Composition."

Katrina Holt, from the National Center of Education in Maternal and Child Health, Washington, DC, updated FNIC's "Anorexia Nervosa and Bulimia" *Nutri-Topic*.

Kieu Xuan Luu, a high school student, worked on FNIC's card catalog files.

Ann Reed Mangels of the Vegetarian Resource Group, Baltimore, Maryland, updated FNIC's "Vegetarian Nutrition" *Nutri-Topic*.

Dr. Jeff Orbach, a practicing dentist in Rockville, MD, and graduate student in nutrition, volunteered to prepare FNIC's "Nutrition and Dental Health" *Nutri-Topic*.

Veronique Quillien, a French information specialist in the U.S. to study information centers, volunteered with FNIC performing general support and helping update the *Pathfinder* "Children's Literature on Food and Nutrition."

Susan Riffe, an elementary school teacher from Prince George's County, Maryland, provided clerical support for FNIC.

Meena Somenchi, a biochemist from India, produced a list of FNIC serials.

Vaile Walders, provided clerical support in FNIC.

### Gift & Exchange Section, Acquisitions and Serials Branch (G&E)

Dr. Corlette "Cam" Calvert, retired scientist from ARS Poultry Lab, works with G&E evaluating, organizing, and preparing materials donated to NAL by the American Poultry Historical Society for inclusion in the NAL collections.

Dr. Ray Schar, retired poultry nutrition scientist from ARS Poultry Lab, works with G&E evaluating, organizing, and preparing materials donated to NAL by the American Poultry Historical Society for inclusion in the NAL collections.

Lanie Young, an experienced library worker from private businesses in library contracting, works with G&E assisting with review of a list of CGIAR publications, verifying status of exchange partnerships with Japan, and other projects.

### Indexing Branch

Audrey Iverson, librarian, volunteered in Indexing searching records and assisting with thesaurus work, until taking an indexing position with the Forest Service.



photo: J. Swab

Audrey Iverson



photo: J. Swab

Franklin Jones



photo: J. Swab

Jesse Ostroff



photo: J. Swab

David Goodman



photo: J. Swab

Elton Nelson



photo: J. Swab

Gretchen Smith

### Information Centers Branch (ICB)

Franklin Jones, retired geographer from the Defense Mapping Agency and other government agencies, volunteered to help with general office and library support and assisted with projects in AIC and FNIC.

### Public Services Division

Cathy Pellegrino, performed clerical work in the office of the Associate Director.

### Reference & User Services Branch (RUSB)

Jesse Ostroff, retired NAL librarian, volunteered to work on materials related to veterinary medicine, particularly some rare French journals.

Dametria Wright, a high school student at the Madeira School, provides clerical assistance in RUSB.

### Special Collections

Anne Effland, historian, Economic Research Service, USDA, volunteered with Special Collections to compile a register of "The Papers of C. F. Stewart Sharpe."



photo: J. Swab

William Yagodich

David Goodman, an employee of the Plant Genome Data and Information Center under a University of Maryland cooperative agreement, volunteers to work on data entry and image transfer for the Pomological Project laser video disc.

Elton Nelson, retired ARS fiber scientist, worked with NAL's Special Collections and other NAL units on the Fiber File Collection.

Steve Shapiro, masters student in library science at the University of Maryland, worked on data entry and image transfer for the Pomological Project laser video disc, and on a register of archival files from the U.S. National Arboretum.

Gretchen Smith, a student at the University of Maryland studying archival automation, works with Special Collections preparing registers for manuscripts.

Phyllis Sparks, retired professor of mathematics from the University of Maryland, worked on image transfer for the Pomological Project laser video disc.

William Yagodich, retired NAL librarian, worked with manuscript collections and archival materials.

**Editor's Note:** The Editor regrets any omissions from this list of volunteers, and that photos of not all were available. A review of back issues of ALIN will reveal others mentioned or pictured in conjunction with other activities. It should also be noted that many persons who have been visiting scholars or librarians, interns, trainees, or part-time NAL employees, and indeed, some full-time staff have volunteered for projects in parts of the library other than where their primary occupation was.

—Joseph N. Swab

## Ag Secretary Recognizes NAL Employees for Volunteer Efforts

A number of employees of the National Agricultural Library received letters from the Secretary of Agriculture thanking them for volunteer work that has "enriched their communities." As part of the President's "Daily Points of Light" volunteer recognition program, the NAL employees were commended by former Secretary of Agriculture Clayton Yeutter (just before he left USDA) for their unselfishness in addressing the United States' "most pressing social problems through direct and consequential acts of community service."





photo: D. Starr

**Robyn Frank**



photo: D. Starr

**David Goldberg**



photo: D. Starr

**Sue Leatherman**



photo: J. Swab

**Cheryl Moore**

Among those at NAL so honored were (in alphabetical order):

— Robyn Frank, Head, Information Centers Branch, who has taught Sunday School for several years and is involved in other volunteer activities at her church.

— David Goldberg, a librarian with the Information Systems Division (ISD), who has served as a board member of his Synagogue's religious school and board of trustees, maintained the Synagogue library, worked with the Association for Hearing Impaired Children, and is a little league coach for soccer, baseball, and basketball teams in his community.

— Sue Leatherman, an ISD computer programmer, who is a teacher's assistant at her children's elementary school, a volunteer computer project leader for the 4-H Club in her community, a member of her church's administrative council, an assistant to the director of youth choirs at her church, an assistant on the church's Christmas play and a volunteer in the church library.

— Cheryl Moore, a library technician with the Cataloging Branch, who has worked with handicapped children, and been active in the Girls Club, local Parents-Teachers Association (PTA), Girl Scouts, and youth programs at her church.

— Wayne Olsen, a librarian with the References User Services Branch, who is a volunteer reference librarian at the Andrews Air Force Base Library.

— Verna Shen, a library technician with the Cataloging

Branch, who has worked in volunteer activities to improve relations between the United States and China (her native country), including initiating, sponsoring, and organizing exhibits on "Agriculture in China" and serving as host/guide to visitors from China, Taiwan, Singapore, Indonesia, and Thailand.

— Sarah Thomas, former Associate Director for Technical Services who has since taken a position at the Library of Congress, who has assisted in fund raising for the American Cancer Society and her community's day care center, helps at her children's elementary school, is active in fundraising for Smith College (her alma mater), works with the PKU (phenylketonuria) Parents of Maryland and is a registered bone marrow donor.

"We at NAL are proud of our coworkers who have been honored by President Bush for their volunteer service," said Joseph H. Howard, NAL Director. "These people and the many others at NAL who volunteer their time and skills to improve others' lives are a credit to the U.S. Department of Agriculture and the nation."

The Daily Points of Light program seeks to recognize those Americans who spend a significant portion of their free time to successfully "combat drug abuse, illiteracy, inadequate education, environmental decay, homelessness, hunger, AIDS, and other critical ills."

The program states that "by reclaiming a drug-plagued, crime-ridden neighborhood, tutoring those who are illiterate, mentoring a troubled young person, befriending a lonely senior citizen, providing housing to the homeless, or protecting our environment, Americans have enriched their communities and, in doing so, have brought meaning and fulfillment to their own lives."

In recent years the last week in April has been designated National Volunteer Week. It is a time "to recognize over 98 million volunteers in this country who donate time to enhance the lives of others."

— Brian Norris



photo: J. Swab

**Wayne Olsen**



photo: J. Swab

**Verna Shen**



photo: J. Swab

**Sarah Thomas**

**Statement by Julia Peterson, President,  
United States Agricultural Information Network,  
to The National Commission on  
Libraries and Information Sciences on  
The White House Conference on  
Library and Information Services**

Mr. Chairman and members of the Commission, I am Julia Peterson, president of the United States Agricultural Information Network (USAIN). Thank you for this opportunity to address the commission on issues of concern to you, to USAIN, and, undoubtedly, to all organizations involved in information services and library management.

USAIN is a relatively new organization, established in 1988. We are a network of corporation libraries, land-grant university libraries, and government agencies that works closely with the National Agricultural Library (NAL) in Beltsville, Maryland, to preserve, share, and improve access to agricultural information throughout the nation.

Currently, we number about 200 members, but because of the national and international concern growing over agricultural information access and preservation, our ranks are growing rapidly. Our aims are closely allied with those of your commission, and our concerns shadow many of those being addressed by the White House Conference.

I would like to focus my remarks on what my organization and the National Agricultural Library, with whom we work hand in hand, are doing relative to "developing national preservation policy," "upgrading rural services," and "expanding networks and access." My remarks may perhaps indicate areas of possible cooperation as you move ahead with your agenda.

Preservation is of particular importance to those of us who work in managing the nation's agricultural literature. We are faced with a perilous situation. A preservation study of the NAL collection, conducted with assistance from the Association of Research Libraries, found that "more than 50 percent of the monographs and serials...are disintegrating and that more than one-fourth of the volumes are brittle, requiring that their contents be transferred to another medium in order to be useful and to escape loss to the scientific world."

The study goes on, "for a significant quantity (of the materials in the collection), as yet undetermined...it is already too late, for they are too disintegrated to be used by researchers."

This is distressing news. Here we have the National Agricultural Library, the premiere agricultural library in the world, faced with the loss of huge chunks of the nation's collection of agricultural information. And, as with most government agencies in this era of belt tightening, NAL is having trouble finding the resources needed to correct the

problem. When even the largest agricultural library in the world is worried about preserving its collection, what must face other agricultural collections?

But there is at least some good news on the horizon. First, there is the White House Conference on Library and Information Services which is bringing together the collective experience and intelligence of the library profession to formulate strategies and garner support in order to address preservation problems like those being faced by NAL.

Then there are USAIN's efforts, which we hope eventually to share and integrate with those of the White House Conference. At a meeting preceding the second annual USAIN conference in Minneapolis last fall, USAIN members pledged to work to develop a plan for saving, not just NAL's collection, but agricultural literature throughout the nation.

An 8 to 10-member board of agricultural information experts from land-grant university libraries and USAIN is being organized, and funding is being sought to develop a "National Preservation Plan for the Historical Literature of Agriculture." NAL is a prime player in this activity.

I have high hopes that this preservation plan will be successful. As my organization and NAL hasten to meet this challenge, we will share our experiences,

good and bad, with the White House Conference. Only through such exchanges among all of us working in the profession can the nation solve its preservation problems.

My next comments concern the recommendation of the White House Conference for upgrading rural services.

The National Agricultural Library has taken a lead in such activities. Its experience provides a concrete, how-to example of at least one way this recommendation may be acted on. I am referring to the library's Rural Information Center (RIC).

RIC is a staff of information specialists whose sole function is to provide information that will assist rural leaders in improving their communities. Through a toll-free telephone number, RIC provides information on rural economic revitalization, local government planning, rural health services, funding for rural development projects, research studies, and other topics related to "maintaining the vitality of America's rural areas." I offer RIC as an example of a program that works in reaching rural America with information services.

USAIN is playing a role in upgrading rural services, too. At our recent annual meeting in Minneapolis we invited a representative of the U.S. Extension Service to address our membership on the subject of Information Technology and the Extension Service. We hope this will lead to more cooperation between our two organizations in improving information services to rural communities. It seems like a natural partnership.

Finally, I want to address the recommendation for "ex-



photo: J. Swab

Julia Peterson



panding networks and access." As our name indicates, the U.S. Agricultural Information Network supports and strongly encourages all efforts to expand networks and access to information. We know that such an approach works to improve information services.

USAIN has brought such diverse organizations as corporations, universities, and state and federal governments together under the banner of improving access to agricultural information. During USAIN's four years of life this has become a reality.

The National Agricultural Library is demonstrating that the technology is at hand to expand information access. NAL is grasping information management technology as a key means for improving access to its magnificent collection. As such, it is blazing the way for many of the rest of us. NAL's extensive use of text digitizing, optical disks, CD-ROMs, and other technologies, and the close networking activities it maintains with USAIN members, land-grant university libraries, and agricultural research facilities benefits all those working in the agricultural sciences.

So what does this mean? In my opinion, it means that the White House Conference is on the right track in focusing on expanding networks and access to information as one way to improve the Nation's library system. The success of the National Agricultural Library in this area is proof that it can be done through diligence, cooperation, and imagination.

This concludes the points I wished to make regarding the recommendations of the White House Conference. And while I have only addressed three of these recommendations, I can assure you that USAIN has an interest in all of the recommendations of the White House Conference. We support these activities wholeheartedly.

Thank you for this opportunity. I applaud the work of the White House Conference.

**Statement by Elaine M. Albright, Chair,  
Legislative and Government Committee,  
United States Agricultural Information Network  
before the Senate Subcommittee on Agriculture,  
Rural Development, Food and Drug Administration,  
and Related Agencies.  
Tuesday, April 7, 1992**

Mr. Chairman and committee members, I am Elaine Albright, Dean of Cultural Affairs and Libraries at the University of Maine. I also serve as the Chair of the Legislative and Government Committee of the United States Agricultural Information Network (USAIN). I am speaking in support of the budget request of \$18,025,000 for the National Agricultural Library (NAL) in Fiscal Year 1993.

The United States Agricultural Information Network is a relatively new organization, established in 1988. USAIN provides a forum for agricultural issues, takes a leadership role in formulating national policy related to agricultural information, and advises the National Agricultural Library. As our name implies, we are a "network" of agricultural information specialists from corporation libraries, state land-grant universities, and state and federal government agencies. We work closely with NAL to share, preserve, and improve access to agricultural information throughout the

nation.

In this era of federal government agencies with billion dollar budgets, the American people have a wonderful bargain in the National Agricultural Library. Unfortunately, I feel that most of the American people are unaware of the important role NAL plays in their well being. The National Agricultural Library maintains over 2 million items related to agricultural research and discovery. This magnificent collection is one of the main reasons that the United States is the most productive agricultural nation in the world.

Since NAL was established in 1862, U.S. scientists have been coming to the library seeking research information to aid them in their own agricultural experiments. That this information is maintained, cataloged, and easily available at NAL has allowed U.S. scientists to move ahead rapidly with agricultural discoveries by

building on the results of other researchers. Advances in U.S. agriculture thus depend in large part on the information resources maintained by the National Agricultural Library.

Unfortunately, maintaining this critically important information is not an easy nor inexpensive task for NAL. The National Agricultural Library has an annual budget of approximately \$18 million. As a comparison, the National Library of Medicine, a sibling national library to NAL, has an annual budget of over \$100 million. Some may argue that medical research is more important — curing diseases being more important than growing food and fiber. However, I submit that making the discoveries that allow the United States to produce the crops and livestock that will help to feed and clothe the world is equally important to the health, economy, and well being of the United States. Starvation and its related diseases are the largest killers of the world's people.

Escalating costs of providing information is eroding the library's ability to fulfill its primary responsibilities, including serving researchers through document delivery and bibliographic publications on key issues in agriculture, and maintaining subscriptions to many important domestic and foreign journals.

The 1993 budget will allow a small expansion of NAL's Food and Nutrition Information Center, which has been providing information on human nutrition and diet to Americans since 1971. NAL will implement a toll-free telephone system offering food and nutrition information to health professionals and consumers. Americans look to the



photo: J. Swab

Elaine Albright



U.S. Department of Agriculture for the most current and comprehensive information on diet and nutrition subjects. The toll-free service will directly respond to this need and to the needs of citizens in rural America who have the greatest need for such information but often have the least access to important informational resources. This project will also support the administration's initiative to ensure that children and the disadvantaged in the United States receive at least basic food and nutrition guidance.

Funding requested for 1993 will also allow a modest expansion of NAL's work in linking the nation's agricultural research information community through various regional, national, and international computer networks. As the largest agricultural library in the nation, indeed in the world, NAL is viewed by land-grant universities, government agencies, research laboratories, and private industry as the leader in organizing and developing networks to improve the fast and efficient flow of agricultural information. For example, NAL has refined CD-ROM technology so that entire collections of agricultural information are available to university libraries on the five-inch plastic disk. The National Agricultural Text Digitizing Program has been so successful that this year it has moved from being an experimental program to being a model program for resource sharing between large research institutions and remote research facilities.

Like the Library of Congress, NAL must address the

dangers facing its unique and irreplaceable resources. The acid contained in the paper of many documents at NAL is gradually turning the documents to dust. Once this occurs, agricultural knowledge contained in those documents will be lost forever. The procedures for addressing this alarming problem (re-binding, de-acidifying paper, microfilming documents) are expensive. NAL needs a preservation budget. USAIN, in collaboration with NAL, is hoping to meet this challenge by developing a national preservation plan for the literature of agriculture.

Agriculture is the keystone of our country's greatness. The United States was built on agriculture, and agriculture will continue to shape our future. The goals of NAL are in keeping with national and U.S. Department of Agriculture priorities, and while its contributions are central to the future of U.S. agricultural development, the Library is in need of help. The agricultural information contained and developed by the National Agricultural Library is vital in continuing our position as the most productive agricultural country in the world.

The United States Agricultural Information Network members strongly urge you to pass NAL's 1993 budget and to consider those issues, such as preservation, which require a level of resources beyond the proposed 1993 level.

Thank you.



**Youth  
Development**

## **New Directions for the Youth Development Information Center**

by John Kane  
Coordinator, YDIC

### **Introduction**

Social and economic pressures are placing an increasing number of our country's youth and families at risk. Extension agents and child, youth, and family development professionals are dealing with a variety of critical issues and challenges. The Youth Development Information Center (YDIC) was established to support initiatives to deal with those problems. To do that more effectively YDIC is changing the way in which it manages information. That change is reflected in a new service called the Child, Youth, and Family Education and Research Network (CYFER-NET) established through the Center as a cooperative effort of the

Extension Service (ES) and the National Agricultural Library (NAL).

Through CYFER-NET material for social programming will be more closely tracked and reviewed by those involved in youth, child, and family development in Extension. The material will then be made available electronically and in a full text using new and evolving communications technology. Because technology affects organizational structure and causes structural change that cannot be fully anticipated, the ultimate service cannot be clearly defined at this point. The direction or vision, however, is clear.

### **The Center History and Organizational Realities**

In the summer of 1988 ES and NAL jointly created the Center to receive materials supporting professionalism in Extension youth development or 4-H. With nearly 6 million 5- to 19-year-olds participating in 1991, 4-H is the largest youth-serving organization in the country. The materials that the Center was tasked to manage are identified as a subset of the AGRICOLA database. That subset, known as 4-HPRK (4-H Professional Research and Knowledge), consists largely of bibliographic citations from professional journals. As such 4-HPRK is most useful for individuals with the time and need to review articles.

In reality there were two problems with this focus on a specific category and format of information. First, the needs of Extension youth and family development professionals, especially those responsible for programs, go beyond the scope of 4-HPRK bibliographies. Those individuals do not often have the time to track down and analyze scholarly articles and incorporate them into programs. When time

and resources are limited, direct access to proven and reliable programs, and the information and resources to support them, is a high priority.

Secondly, it is often difficult or confusing to try to differentiate information dealing with youth from that dealing with families or children. Many programs in Extension at the local level are cooperative efforts between 4-H and Home Economics. To rectify this second point the Center, with CYFER-NET, is broadening its mandate to manage a continuum of information dealing, not just with youth, but with children and families as well. By doing this CYFER-NET (in collaboration with the Food and Nutrition Information Center) also will be supporting Extension's Home Economics and Human Nutrition program that is of equal size and scope to 4-H.

## **Extension Programs**

USDA, through the Extension Service's programs in 4-H/Youth Development and Home Economics and Human Nutrition, is committed to meeting the social challenges of today. Special funds from the federal government and from private nonprofit foundations are going into new nationwide Extension initiatives. Examples include federal government funding of a "Youth at Risk" initiative, Kellogg Foundation support of national "Centers for Action" in school age child care, science, and technology education and collaboration building, and DeWitt Wallace Readers Digest Fund support of staff training and development for youth professionals. These Extension-wide initiatives are in addition to the ongoing programs in youth development, family resource development, and human nutrition.

With new programs and initiatives some state and county agents are having to deal with new orientations and sets of skills. There are an increasing number of major Home Economics and 4-H youth programs in inner cities, and Extension is dealing with topics like substance abuse prevention, self esteem, and adolescent pregnancy in both rural and urban areas. This suggests a real responsibility for the federal partner to supply comprehensive support for social programs at the local level.

While new initiatives are not always easy to deal with for an organization, there are some benefits to the situation. With limited resources and a commitment to increasingly critical social programming there is a growing incentive to pool the collective USDA/land-grant expertise. That impetus to collaborate supports the direction the Center is taking with CYFER-NET.

## **New Directions for Information Management**

Communications technology is driving the change in the way the Center identifies, reviews, and distributes information to a diverse audience. The shift from analogue to digital communications in this decade promises new methods of information management with tremendous potential. That management will be less concerned with hard copy editions of serials on library shelves and more on electrically managed data and the immediate access to complete bodies of information whether it is text, video, or audio.

Extension is uniquely suited to support this shift. The

pool of technical communications expertise at ES (Communications Information Technology) and in the States through the technical branches of the Cooperative Extension Service, the research /program interface, and the delivery network of agents have profound implications. Not only can information be generated, identified, evaluated, and delivered by a broad network of professionals, but, in addition, communications technology can be fully utilized to support that process.

The role of NAL is critical to this project for three reasons. First of all, the indexing and cataloging of materials in physical form will continue to be important for the long term integrity of that information. Secondly, the role of a library is essentially information management in whatever format it is presented. Libraries are institutions associated with the unbiased processing of knowledge which is important to information credibility. Finally, while NAL enjoys a reputation as an institution responsible for information management, it also has national rather than local or regional interests central to that responsibility.

The opportunity to institutionalize this service as part of a national agency with a mandate for information management (NAL) is one that few other agencies or organizations have. In developing that support ES and NAL will significantly benefit Extension's initiatives and those of others in social services.

## **Key to Effective Management**

In effect this is a paradigm shift for extension and NAL in that Extension will, with NAL's support, become more than ever its own information service. It is in recognition of this that the Center is establishing itself administratively as central to, but only part of, a broader information service called the CYFER-NET.

There are two key elements, both dependent on communication technology, on which the service is predicated. They are review and collaboration.

The review process is critical to the credibility of the material in that it will ensure both quality and appropriateness as material is continually added and deleted. Through CYFER-NET program material will be identified as it is produced, reviewed by any one of several representative juries of child, youth, and family development professionals, and evaluated against a set of national criteria. If it is accepted into the national database, that material will then be made available on an electronic platform. Individuals can then down-load it in its entirety whether it exists as text, graphics, or video.

Collaborations are important because it is recognized that not all information can be managed well by any one entity. The service will be dependent on a variety of organizations for material that is not generated or processed by the Center, NAL, ES, or USDA. Information such as bibliographies of copyrighted material, funding information, policy reviews, research results, and directories, or referrals for expertise will be made available electronically through cooperative agreements.

The Center has acted in the past as a self-contained information service within NAL. With the advantages of communications technology, this concept pulls down those



walls of containment to produce a virtual electronic system-wide information service. It will be a comprehensive service managed centrally but available via computer to every extension office in the country.

## Organizational Challenges

There is a challenge inherent in this initiative. Communications technology eventually affects organizational structure. State specialists may have less control over the information that is available to counties but, as part of CYFER-NET, they will become increasingly important as contributors to and interpreters of information managed nationally.

ES and NAL, through CYFER-NET, will rely more than ever on collaborative efforts to manage information and on technology to tie it together. Organizational concerns will be eased by planning on a broad and collaborative basis to ensure the value of the service to the extension community before the system goes fully into effect. The service is open to anyone with computer access, however. As collaborations are established with others outside of USDA, the value of the service will be enhanced for the wider child, youth, and family development community.

The establishment of CYFER-NET will take time. Commitments from a system as big as the Cooperative Extension Service and collaborations with a host of partners based on the concept of information sharing will take time to work out. As the industrial revolution allowed dramatic increases in production so will revolutions in information and communication technology facilitate social growth. It took time to learn to share work with machines during the industrial revolution. It will take time to learn to share information and decision-making with technology.

## The Complete Service

The project can be thought of as analogous to putting together a puzzle. There are many pieces, both technical and organizational, that have to be carefully fitted so that in the end the entire spectrum of information is covered comprehensively. The figure below identifies some, but not all,

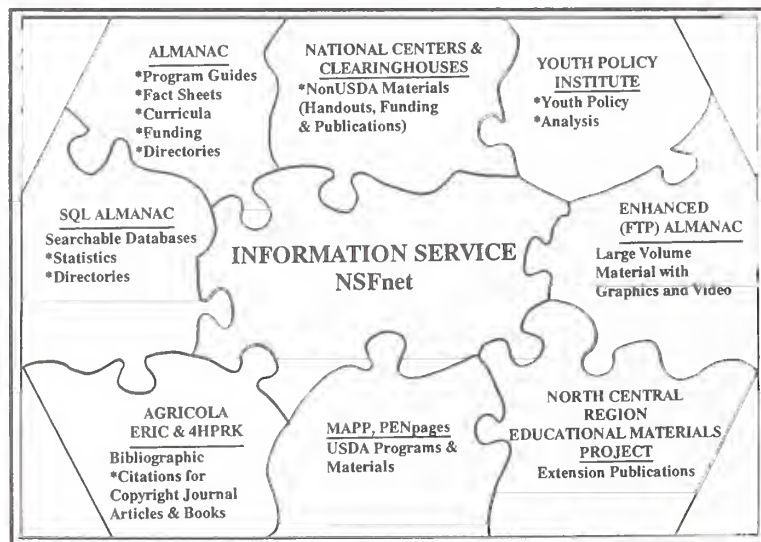
of the pieces that might make up that puzzle.

As the diagram indicates there are a number of organizational and technical aspects to the puzzle. Collaborations with State and regional Extension databases, such as the National Family Database (MAPP) at Pennsylvania University and the North Central Region Educational Materials Project, and nonprofit organizations, such as the Youth Policy Institute, will provide valuable information management expertise. Many of these collaborations will be realized by tying together electronic databases (in geographically different locations) through technology.

The technical pieces to the puzzle include information servers (Extension's Almanac system), telnet and Structured Query Language (SQL) capabilities, multimedia File Transfer Protocol (FTP) capabilities, Wide Area Information System (WAIS) technology, and expert systems. These technologies allow different types of information to be managed in different formats and with an increasing degree of sensitivity. They will be implemented incrementally over a period of time because the objective of the project is not to demonstrate technology but to manage information. It is felt that time will allow those communications technologies to evolve through technical channels in the USDA/land-grant system and ensure a level of technical proficiency before the system is fully operationalized.

It is envisioned now that the project will take roughly three years to complete. In 1992 an information server is being put into operation and a curriculum review process will be piloted.

The final service envisioned will have: (1) electronic platforms (tied together with communications technology) upon which an array of information will be managed and made widely available on the Internet or through modems; (2) a system for identifying, reviewing, and providing program critical materials in a variety of formats; (3) institutionalized networks with other agencies and organizations to acquire complementary information; (4) a network of comparable electronic databases; (5) a merged archival capability (of NAL) and information identification and review expertise (of Extension); and (6) a system that will help clients define their own needs and find solutions to problems in light of the goals and information criteria of the Extension 4-H/Youth Development system (with expert systems).



## Conclusion

In its completeness CYFER-NET is analogous to the American Automobile Association. By guiding patrons through an electronic "superhighway" (the Internet) it will act as the equivalent to an automobile association that provides trip descriptions through unfamiliar territory and services for travelers who need help along the way. As an electronic tracking, review process, and clearinghouse, the service will provide all the informational needs of those conducting social programs in one comprehensive service through its central electronic hub. It will empower child, youth, and family development professionals and volunteers by providing access to timely and comprehensive information for effective programming.







## News Notes

# Indexing Branch Participates in Flexiplace Pilot Study

by Shirley J. Edwards  
Head, Indexing Branch

An appreciable number of indexers have been participating in the Flexiplace pilot study developed by the President's Council on Management Improvement that began at the National Agricultural Library in early November 1990.

Indexers and the Head of the Indexing Branch completed a questionnaire and attended a one-day training session before implementation of the program. Among the requirements for participation in the pilot study are:

- Work that is portable
- Satisfactory performance rating
- Current performance standards
- Adequate work space and telephone service at the residence
- Completion of evaluation materials
- Attendance at focus group meetings
- Execution of Flexible Workplace Project Work Agreement

Presently, there are 11 indexers in the program that allows them to work at home two to four days per week. Subject to supervisory approval, participants selected an official tour of duty for their alternative work sites just as they have done for the days they work at NAL. Everyone must come to NAL on Wednesday for a weekly staff meeting and to deliver and pick-up work. In order to be rapidly responsive to requests from on-site patrons who want a publication that an indexer might have at home, a method of tracking them has been developed. We try to avoid having an indexer come to NAL to return a needed publication, but will do so if the elapsed time before the indexer is scheduled to be at NAL prevents timely filling of a request.

Communication with those working at home is maintained via telephone or E-mail. Phone numbers of participants were made available to Indexing Branch staff; however, the Branch Secretary takes messages for incoming calls and relays them to the person working at home. Participants are keeping notes on their observations regarding the pros and cons of the program and the Branch Head is issuing the "Flexiplace Gazette" to be certain that all Indexing Branch participants are kept informed regarding the details of the program's administration.

Although increased productivity is not an expectation of the program, a comparison of productivity before Flexiplace

and at the end of Fiscal Year 1991 reveals figures that range from statistically insignificant to some that are quite substantially increased. While management realizes that all of the increase might not be attributable to Flexiplace because of the many variables involved, the results are clearly positive. Some indexers have actually taken on additional responsibilities and also increased their indexing output. There are many other advantages to telecommuting—ability to attract and retain talented employees, increased morale, less stress, less exposure to communicable diseases with a resulting decline in use of sick leave, fewer people in the office means less noise and fewer distractions, relief of parking space shortages, less traffic congestion and fewer accidents, cleaner air, etc. State governments and many companies have telecommuting programs—AT&T, GTE, IBM, Travelers Corp., Bell Atlantic Corp., Information Access Company, to name just a few.

A year and a half after its inception, everyone in the Indexing Branch remains very pleased with the program, including the Branch Head who urges others to try it for mutual benefit to NAL and its staff.

## AGRICOLA to Be Available on Firstsearch and EPIC

Dublin, Ohio, June 25, 1992—AGRICOLA, the 2.7 million-record bibliographic database of books, serials, audiovisuals, and other materials acquired by the National Agricultural Library and cooperating institutions, will be available later this year on FirstSearch and EPIC, OCLC's online reference services.

Most of the records in AGRICOLA—85 percent—describe journal articles and book chapters. About 65 percent are in English. The database covers agriculture, agricultural economics, agricultural engineering, animal science, botany, chemistry, energy, entomology, cooperative extensions, food science, forestry, geography, home economics, human nutrition, life sciences, natural resources, plant diseases, insect pests and their control, rural sociology, and veterinary medicine.

"AGRICOLA is considered the premier U.S. agricultural database," said Tam Dalrymple, OCLC Reference Services. "It is a basic addition to the breadth of databases on FirstSearch and EPIC."

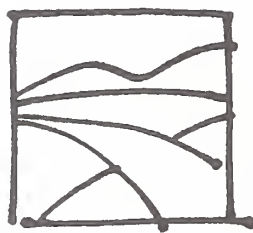
OCLC's new online reference service, The FirstSearch Catalog, is designed for library patrons. The end-user interface allows patrons to move easily through the online search process in just a few simple steps, without training or online searching experience. Databases now available on FirstSearch are: *WorldCat* (the OCLC Online Union Catalog); *Biography Index*; *BIOSIS/FS*; *Business Organizations*; *Business Periodicals Index*; *Concise Engineering Index*; *Consumers Index*; *Disclosure Corporate Snapshots*; *ERIC*; *FactSearch*; *GPO Monthly Catalog*; *Humanities Index*; *Mini-GeoRef*; *MLA Bibliography*; *Newspaper Abstracts*; *PAIS Decade*; *Periodical Abstracts*; *PsycFIRST*; *Readers' Guide Abstracts*; *Readers' Guide to Periodical Literature*; *Sociologi-*

cal Abstracts; and Wilson Business Abstracts.

EPIC is a full-featured online reference system that provides subject access, and keyword and Boolean searching to a variety of databases. Databases now available on EPIC are: OCLC Online Union Catalog; ABI/INFORM; Biography Index; BIOSIS Previews; Book Data; Business Dateline; Business Organizations; Business Periodicals Index; Consumers Index; Dissertation Abstracts; ERIC; GeoRef; GPO Monthly Catalog; Humanities Index; A Matter of Fact; MLA Bibliography; Newspaper Abstracts; PAIS International; Periodical Abstracts; PNI (Pharmaceutical News Index); PsycINFO; Readers' Guide Abstracts; Readers' Guide to Periodical Literature; Sociological Abstracts; and Wilson Business Abstracts. EPIC also offers the EasyNet Gateway Service, an online information service that provides electronic gateway service to more than 450 databases offered by five major database vendors.

OCLC is a nonprofit computer library service and research organization whose computer network and products link more than 14,000 libraries in 46 countries and territories.

—OCLC



**Rural  
Information  
Center**

## **RIC Assists in Rural Business Expansion**

In 1990 a New Mexico mining company asked a regional development organization to assist in the identification of potential markets for zeolite. The mine had several million tons of zeolite which is a group of hydrous aluminum silicate minerals. However, the commercial use of zeolite is still in its infancy. The company knew about only two markets and needed to identify additional ones before it could insure a profit to expand the zeolite mining operation.

Therefore, the development organization contacted RIC for new market information. RIC provided a literature search and articles which helped in identifying six new markets including kitty litter, aquarium filtration systems, and supplements for chicken and cattle feed. With this information the development organization initiated contacts which resulted in determining that sufficient potential uses for the product existed. The mining company then developed a formal market plan.

RIC's initial information assisted the mining company in retaining twelve existing jobs in the county and generated initial annual sales of \$500,000. The potential longevity of these jobs is very good based on the supply and market diversification options for the products. An unexpected benefit that resulted from the success of this project was that

both New Mexico State University and the New Mexico Institute of Mining and Technology have begun research in the areas of zeolite for heavy metal pickup from contaminated oils and soils.

—Patricia La Caille John



**Plant Genome  
Data and  
Information  
Center**

## **Plant Genome To Be Spotlighted in International Conference**

International activities in plant genome research will be highlighted in a conference November 9-11, 1992, in San Diego, California. The conference, Plant Genome I, is being sponsored by USDA's Agricultural Research Service and National Agricultural Library, Japan's National Institute of Agrobiological Resources, the United Kingdom's John Innes Centre, and the Rockefeller Foundation. The official sponsoring publication is *Agro-Food Industry hi-tech*.

Besides the sponsoring agencies, other organizations expected to participate include the USDA Forest Service, the National Institutes of Health, Brookhaven National Laboratory, and at least a dozen U.S. universities.

Sessions will include "Mapping Projects," "Informatics," and "Beyond the Map." Over 30 scientists and professionals from government and private organizations and from universities will report their findings on plant genome research during the three days of meetings. In addition, special "poster sessions" will give other scientists and researchers opportunities to present their plant genome research results. To take part in the poster sessions, potential participants must submit an abstract of their findings to the conference coordinators (address below) by October 1.

"Activities in the area of plant genome research have grown tremendously in the last two or three years," said Susan McCarthy, coordinator of NAL's Plant Genome Database and Information Center. "The seminar will allow scientists to exchange ideas and share their experiences in mapping plant genomes."

An announcement of the conference program and additional information on attending and participating in the conference follows on the next page. Please clip or xerox the form to register or obtain further information or contact:

*Plant Genome I*  
Scherago International, Inc.  
11 Penn Plaza, Suite 1003  
New York, NY 10001  
Telephone (212) 643-1750  
Fax: (212) 643-1758





Announcing  
**PLANT GENOME I**

November 9-11, 1992  
Town & Country Hotel, San Diego, CA

**Sponsors**

Agricultural Research Service, USDA/ARS  
John Innes Centre (U.K.)

National Agricultural Library, USDA/NAL  
National Institute of Agrobiological Resources, NIAR (Japan)

**Chairmen**

**S. Heller**, USDA/ARS, Beltsville, MD  
**M. Gale**, John Innes Centre, Norwich, UK

**J. Micksche**, USDA/ARS, Beltsville, MD  
**K. Takayanagi**, NIAR, Tsukuba, Japan

**Organizer**

Scherago International, Inc.  
11 Penn Plaza, Suite 1003, New York, NY 10001, Tel: (212) 643-1750, Fax: (212) 643-1758

**SCIENTIFIC PROGRAM**

**MONDAY, NOVEMBER 9, 1992**

9:00 am - 12:00 Noon **SESSION I — PURPOSE, MANAGEMENT & ORGANIZATION — K. RUSSELL, NAL**

J. Micksche, ARS • K. Russell, NAL • G. Jen, CSRS  
E. Magnien, EC • K. Takayanagi, Japan

1:00 pm - 3:00 pm **VIEWING OF EXHIBITS AND POSTERS**

3:00 pm - 7:00 pm **SESSION II — MAPPING PROJECTS — M. BERLYN, YALE**

R. Shoemaker, ARS, Iowa • E. Coe, ARS, Missouri  
D. Neale, USDA/FS, Berkeley, CA • M. Gale, Norwich, UK  
B. Nilan, Pullman • N. Kurata, NIAR, Japan  
T. Osborne, Madison

**TUESDAY, NOVEMBER 10, 1992**

9:00 am - 12:00 Noon **SESSION III — MAPPING PROJECTS — C. KANEDA, KOBE UNIVERSITY**

E. Meyerowitz, CalTech • R. Sholl, OSU  
C. Dean, Norwich • R. Sederoff, NC State  
J. P. Gustafson, ARS, Missouri

1:00 pm - 3:00 pm **VIEWING OF EXHIBITS AND POSTERS**

3:00 pm - 6:30 pm **SESSION IV — INFORMATICS — A. BARBER, DOE**

D. Bigwood, NAL, Beltsville • J. McCarthy, LBL, Berkeley, CA  
D. King, NABIAP Project, VPI • A. Stoner, GRIN, ARS, Beltsville  
TBA, NCBI/NIH, Bethesda • S. Knapp, Oregon

**WEDNESDAY, NOVEMBER 11, 1992**

9:00 am - 12:00 Noon **SESSION V — BEYOND THE MAP — A. RAFALSKI, DUPONT**

S. Tanksley, Cornell • T. Sasaki, NIAR, Japan (cDNA talk)  
G. Moore, Norwich • T. Helentjaris, Arizona  
J. Bennetzen, Purdue

1:00 pm - 3:00 pm **VIEWING OF EXHIBITS AND POSTERS**

3:00 pm - 6:30 pm **SESSION VI — BEYOND THE MAP — G. FISCHBECK, MUNICH**

B. Burr, Brookhaven • M. Ganai, Cornell  
R. Michelmore, UC Davis • H. Goodman, Mass General  
R. Philips, Minneapolis • P. Helsop-Harrison, Norwich

**Proposed Satellite Sessions**

"Forest Tree Genome Mapping" — organized by David Neale

"Map Generation & Analytical Mapping Software Workshop" — organized by Ed Coe, Mary Berlyn & Stan Levtosky

**Participants are invited to submit abstracts for the poster session.**

**Abstract deadline for Inclusion in the Final program is October 1.**

**Registration Fees:**

\$325 ON-SITE REGISTRATION.

\$275 ADVANCE REGISTRATION — (Received by Sept. 16)

\$ 75 STUDENT REGISTRATION — Student status must be confirmed in writing by department chairman.

Student rate does not apply to postdoctoral applicants.

- ☐ Please send registration information.  
☐ Please send abstract form.  
☐ Please send information on exhibiting.

**Plant Genome I**

Registration Fee of \$\_\_\_\_\_ enclosed

First name	<input type="text"/>	Last name	<input type="text"/>
Department	<input type="text"/>		
Affiliation	<input type="text"/>		
Street	<input type="text"/>		
City	<input type="text"/>	State	<input type="text"/>
Phone	<input type="text"/>	Zip	<input type="text"/>

Return to: Plant Genome I/Scherago International, Inc., 11 Penn Plaza, Ste 1003, New York, NY 10001, Tel: 212-643-1750, Fax: 212-643-1758.

Make checks payable to: Scherago International/Plant Genome I



## In Memoriam Foster E. Mohrhardt

Retired National Agricultural Library Director, Foster Edward Mohrhardt, 85, died June 7 in Arlington, Virginia, after a heart attack.

Mr. Mohrhardt served as the Library's director from 1954 to 1968. Under his direction the Library, which had been the departmental library of the U.S. Department of Agriculture since 1862, was designated National by Secretary Orville Freeman of the Kennedy administration in 1962. Other major accomplishments of his directorship included construction of the Library's seventeen story building in Beltsville, Maryland (completed in 1968); the initiation of computerized cataloging and indexing (in 1965), the antecedent to the Library's AGRICOLA database; and development of the Library's first *Agricultural/Biological Vocabulary*, published in 1967.

After retiring from NAL in 1968, Mr. Mohrhardt was a program officer with the Council on Library Resources until September 1975.

Mr. Mohrhardt, a leader in the library profession, served as president of the American Library Association (ALA), 1967-68, and vice president, 1966-67. The ALA press release announcing his inauguration as president stated, "His unique position in librarianship is highlighted by his contributions to other professional and scientific groups as well as his wide representation of U.S. interests in world librarianship and documentation."

He was one of the founders of the International Association of Agricultural Librarians and Documentalists (IAALD), and served for over twelve years as its first president, 1955-68, and promoted its early international conferences in Ghent, Belgium, 1955; Paris, France, 1957; Stuttgart, Germany, 1960; The Hague, Netherlands, 1962; Rome, Italy, 1964; and Washington, D.C., 1965. He was president of the Association of Research Libraries, 1966; the U.S. Book Exchange, 1958-60; National Federation of Science Abstracting and Indexing Services, 1964-65; Council on Biological Sciences Information (National Academy of Sciences), 1966-67; and of several other organizations.

He also served as a member of the boards of directors, advisory and editorial boards, and committees of many organizations, and served as the chair of many of them. Among those of special significance were the Science Information Council of the National Science Foundation (beginning 1958); the Executive Board (beginning 1962), and Chairman (beginning 1965) of the U.S. National Committee for the International Federation for Documenta-

tion of the National Academy of Sciences and the National Research Council; the Committee on Scientific and Technical Information (beginning 1962) of the Federal Council for Science and Technology, Executive Office of the President; Vice-President of the American Association for the Advancement of Science (AAAS), 1963, and co-founder and chairman of its Section T, Information and Communication.



Mr. Mohrhardt served in a similar role in international organizations related to both the sciences and the library and information field. He was a delegate to many international meetings representing the U.S. and various organizations.

A bibliography of Mr. Mohrhardt's publications, speeches and addresses, and contributions to professional literature would list more than a hundred works. He began with a series of publications related to junior college libraries and teachers college libraries, including identifying standards and basic works, and moved into documentation, international development of libraries, science subjects, and professional librarianship throughout his career.

Mr. Mohrhardt was the recipient of numerous awards and honors, including the Distinguished Service Award of the U.S. Department of Agriculture in 1963. He was cited "For unusual vision, competence, and accomplishment in evolving and promoting a dynamic agricultural library program for the Department and the Nation, and for exceptional international professional leadership." In 1967 Kalamazoo College, Kalamazoo, Michigan, conferred on Mr. Mohrhardt the degree of Doctor of Laws, in recognition of his outstanding contributions to the field of librarianship. He was appointed a Fellow of the American Association for the Advancement of Science and of the Institute of Information Scientists in London.

Before coming to USDA Mr. Mohrhardt held positions at university libraries from 1929-1946, including university librarian at Washington and Lee University, Lexington, Virginia; was a contract consultant at Brookhaven National Laboratory 1947-48; taught library science at Columbia University, New York, 1947-48; was chief of the Library Division, U.S. Veterans Administration, 1948-54; and worked for the Carnegie Corporation in New York. During World War II he served in the Army Air Force and the Navy.

Mr. Mohrhardt, a native of Lansing, Michigan, received the Bachelor of Arts degree from Michigan State University (1929); Bachelor of Science, Columbia University (1930); Diploma, University of Munich (1932), Master of Arts (library science), University of Michigan (1933); he did advanced work (Ph.D. study) at Columbia University (1934-35); and later studied at North Carolina, New York, Purdue, and Indiana Universities.



USDA photo, N-44207

Secretary of Agriculture Orville L. Freeman, marked the 100th anniversary of the U. S. Department of Agriculture's Library March 23, 1962, by signing papers designating it as the National Agricultural Library in recognition of its traditional nationwide responsibilities. Looking on was the Director of the Library, Foster E. Mohrhardt. Beginning with 1000 volumes transferred from the Patent Office to the Agriculture Department when the Department was founded in 1862, the Library has grown to over two million volumes (one million then). Next to the Library of Congress, it was, and is today, the largest U. S. Government library in existence.



USDA photo, 4437-26

Foster E. Mohrhardt (center) and Orville L. Freeman (right) lay the cornerstone of the National Agricultural Library's new building in 1967.

Mr. Mohrhardt's survivors include his wife, Katherine, of Arlington; a son, David, of Berrien Springs, Michigan; a daughter, Katri Nowak of Shalimar, Florida; five grandchildren; and three great grandchildren.



USDA photo, N57746

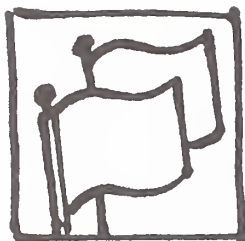
August 20, 1965, Foster E. Mohrhardt, Director, NAL, and Nyle C. Brady, Director, Science & Education, USDA, conduct an information retrieval demonstration from the World's Fair, New York, to NAL, Washington, D.C.



USDA photo

May 17, 1963, Foster E. Mohrhardt received USDA's Distinguished Service Award from Secretary Orville E. Freeman. Principal speaker was Vice President Lyndon B. Johnson.





## Visitors

# ICIZE Librarian Nsubuga Completes Work as NAL Visiting Scholar

In the first quarter of 1992, Mr. Noah Nsubuga, Senior Librarian of Library, Information, and Documentation Service (LIDS) of the International Centre of Insect Physiology and Ecology (ICIZE), participated in NAL's Visiting Scholar Program.

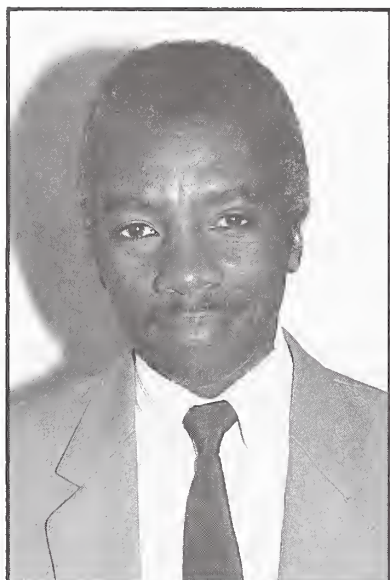


photo: J. Swab

Noah Nsubuga

ICIZE, located in Nairobi, Kenya, is the site of research on integrated control methodologies for crop and livestock insect pests, and on control of insect vectors of tropical diseases. This area of research is crucial to rural health in the tropics. In addition to its role in research, ICIZE strengthens the scientific and technological capabilities of developing countries through training and collaborative work.

The Library, Information, and Docu-

mentation Service plays a leading role in the region in a strong network of communication, disseminating information on current research. Mr. Nsubuga's new knowledge of information systems and resources will be of value to strengthen the existing network.

Mr. Nsubuga chose NAL's Visiting Scholar Program to focus on information technologies; more specifically, information products, creation of databases, development of user profiles, automation of manual operations, text digitization, and optical scanning.

Mr. Nsubuga says "The application of information technologies has played a central role in the growth of the library and documentation services at the ICIZE." Most of Mr. Nsubuga's experience included systems other than those developed and used in the U.S. The NAL experience provided an ideal opportunity to expand his knowledge.

In addition to the observations and experience with

NAL's technologies, Mr. Nsubuga made some useful contacts to help him stay informed. He will be a valuable link for NAL in Kenya and the surrounding region.

In NAL's Gift and Exchange Program, he reviewed and updated data on Africa-based exchange partners. Additionally, he informed NAL about new publications not yet in the NAL collection.

While working at NAL, Mr. Nsubuga visited the Documentation Center of the Insect Biocontrol Laboratory, Agricultural Research Service (ARS); met with staff of the Cooperative State Research Service, Current Research Information Service; and toured the Agricultural Research Service, Beltsville Agricultural Research Center, the National Library of Medicine, and the Library of Congress. At the Library of Congress, he saw Collection Services, Information Technology Services, African, Middle Eastern Acquisitions Section, and the African and Middle Eastern Division. During all of these visits, Mr. Nsubuga provided information regarding ICIZE programs and publications, received U.S. publications, gathered information, and made arrangements for future receipt of U.S. publications and information in Kenya.

As part of the NAL Visiting Scholar Program, Mr. Nsubuga made a presentation to the NAL staff about his organization and country. In addition to being informative, this provided another opportunity for sharing information and establishing contacts.

For information on NAL's Visitor Programs, contact:

*Educational Program Section  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351  
Telephone: 301-504-5779  
Fax: 301-504-5472*

— Susan Fugate

## Visiting Scholar Dhamankar Completes Work with NAL

Mona Dhamankar, Chief of the Information Resource Centre at the Bharatiya Agro Industries Foundation (BAIF) Development Research Foundation in Pune, India, recently completed a 6-month internship with NAL's Alternative Farming Systems Information Center (AFSIC).

During her tenure with AFSIC, Ms. Dhamankar developed Sustainable Agriculture Reference Tool (SART), an expert system that educates its users about the benefits of alternative agriculture and encourages them to convert to more environmentally compatible methods of farming. SART has three modules:

- **Module 1** provides the overview, including the philosophy, basic principles, terminologies, and definitions of sustainable agriculture.
- **Module 2** supplies the basic components on soil nutrient management, crop rotations, weed management, pest management, conservation tillage, pasture management, and livestock production.



- **Module 3** offers considerations for making the transition from high input to sustainable agriculture — advantages; how to get started; how to assess resources and anticipate weaknesses; and finally, how to develop a crop rotation model, field plan, and time table.

SART runs on IBM compatible computers and uses a commercially available expert software system.

Ms. Dhamankar plans further development of SART; it ties in well with the goals of her organization, BAIF, which aims to improve the quality of life of the rural poor by regenerating degraded resources—land, livestock, water, and vegetation. SART—as an expert system—also integrates the various aspects of Ms. Dhamankar's job as Chief of BAIF Information Resource Center where she's respon-

sible for Library and Information Services, Computer/EDP Services, and Communication and Training Services.

Ms. Dhamankar received her internship at NAL through the Fulbright Grant Program administered by the Institute of International Education (IEE). She was one of four librarians from institutions throughout India selected to "learn new management skills and computerization techniques, which, when applied at home, would constitute a major con-

tribution to the field of library science in India."

At NAL Ms. Dhamankar worked with Jayne MacLean, ASFIC Coordinator, who served as her sponsor; Jane Gates, AFSIC; Debbie Hanfman, Aquaculture Information Center; and the Rural Information Center Staff. Ms. Dhamankar also travelled extensively to add to her knowledge base. She attended the U.S. Agricultural Information Network (USAIN) and the International Association of Agricultural Librarians and Documentalists (IAALD) Conferences. While in California to attend an Organic Farming Symposium, Ms. Dhamankar met with representatives from UCLA; Bio-Integral Resource Center; the Ecology Center in Berkeley; Agroecology Program, UC-Santa Cruz; Volunteers in Asia, Stanford University; and the Sustainable Agriculture Research and Education Program and the Small Farm Center at UC-Davis. In addition, she met with people from the Center for Communications Programs at Johns Hopkins University in Baltimore, MD, and expert systems developers from Virginia Tech in Blacksburg, VA.

Ms. Dhamankar holds a Bachelor's Degree in Home Science, a Master's Degree in Sociology, and Bachelor's and

Master's Degrees in Library Science. She has represented BAIF at training programs organized by UNESCO and held in Kiev, Ukraine. She has visited information centers and libraries in the United Kingdom. Ms. Dhamankar attended 5-week courses on "Library and Information Center Management" at the Universiti Sains Malaysia, in Penang, Malaysia, and "Information Repackaging and Consolidation" at the Asian Institute of Technology in Bangkok, Thailand.

Her special interests are trekking and mountaineering (she has completed many high-altitude treks in the Himalayan and Western Maharashtra region); foreign languages; and ethnic interior design, using low/medium budget interior design for small houses, with indoor gardening as an important feature.

— Kate Hayes and Hannah Stires, Technology Transfer Information Center



photo: J. Swab

Mona Dhamankar

(Agriculture Datebook, from p. 23)

**September 9-11: Successful Farming's NAMA Issue Conference.** Minneapolis, MN. Contact: 202-720-4525.

**September 10: Visit to a Working Fish Farm.** Chestertown, MD. Contact: Don Webster, 410-822-1244; FAX: 410-822-5627.

**September 11: National Agricultural Marketing Association.** Minneapolis, MN. Contact: Eldon White, 913-492-0220.

**September 11: Train-the-Trainers Workshop.** Thompson Farm, Rt. 2, Box 132, Boone, IA. Contact: Thompson Field Days, c/o Barbara Bruno, Rodale Institute, 222 Main Street, Emmaus, PA 18098, 215-683-6383.

**September 12: Hybrid Striped Bass Field Day.** Newton County, IN. Contact: LaDon Swann, 317-494-6264; FAX: 317-494-9347.

**September 13-17: American Association of Zoological Parks and Aquariums (AAZPA).** Toronto, Canada. Contact: Barbara Ray or Beverly Beatty, 304-242-2160.

**September 13-17: INTECOL's IV International Wetlands Conference.** Theme: Global Wetlands Old World and New. Columbus, OH. Contact: William Mitsch, 614-292-9773.

**September 14-17: American Fisheries Society.** Rapid City, SD. Contact: AFS, 301-897-8616.

**September 15: REA CPA Symposium.** Savannah, GA. Contact: 202-720-5277.

**September 16: Congressional Travel and Tourism Conference.** Washington, DC. Contact: 202-720-8653.

**September 16: USDA's Hispanic Heritage Month Opening Ceremony.** Washington, DC.; Administration Bldg. Patio (11:30 a.m.). Contact: Vie Tidwell, 202-720-0352.

**September 16-18: National Advisory Council on Maternal, Infant and Fetal Nutrition Meeting.** Washington, DC. Contact: 703-305-2062.

**September 17-18: SCAW Conference: Refinement and Reduction Strategies in Animal Testing.** Trenton, New Brunswick, Philadelphia area. Contact: SCAW, 301-654-6390; FAX: 301-907-3993.

**September 19: Hybrid Striped Bass Field Day.** Warren County, IN. Contact: LaDon Swann, 317-494-6264; FAX: 317-494-9347.





## New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the Library and its Information Centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to:

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National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

## Quick Bibliographies

**Q.B.—92-37.** Soil Organic Matter: Impacts on Productivity, January 1988-February 1992. 208 citations; languages: none excluded. Prepared by Karl Schneider. Reference and User Services Branch. March 1992. Updates Q.B. 91-24.

**Q.B.—92-40.** Amaranths for Food or Feed, January 1979-February 1992. 252 citations in English. Prepared by Jane Potter Gates. Alternative Farming Systems Information Center. March 1992. Updates Q.B. 90-29.

**Q.B.—92-41.** IPM and Biological Control of Plant Pests—Horticultural Crops, January 1987-December 1991. 393 citations in English. Prepared by Jayne T. MacLean. Alternative Farming Systems Information Center. May 1992. Updates Q.B. 90-47.

**Q.B.—92-43.** Hydroponics—Nutrient Film Technique, January 1983-December 1991. 272 citations in English. Prepared by Henry Gilbert. Reference and User Services Branch. April 1992. Updates Q.B. 90-77.

**Q.B.—92-44.** Poisonous Plants, January 1984-December 1991. 278 citations in English. Prepared by Carol Kopolow. Reference and User Services Branch. April 1992. Updates Q.B. 87-12.

**Q.B.—92-45.** Wildflowers, January 1979-December 1991. 290 citations in English. Prepared by Carol Kopolow. Reference and User Services Branch. April 1992.

**Q.B.—92-46.** Small-scale Ethanol Production, January 1979-October 1991. 135 citations in English. Prepared by Steven Shapiro. Reference and User Services Branch. April 1992.

**Q.B.—92-47.** Biotechnology: Bioremediation, January 1987-March 1992. 174 citations; languages: none excluded. Prepared by Robert D. Warmbrodt and Lara Wiggert. Biotechnology Information Center. May 1992. Updates Q.B. 91-106.

**Q.B.—92-48.** Biotechnology: Genetic Engineering for Crop Plant Improvement, January 1991-March 1992. 320 citations; languages: none excluded. Prepared by Robert D. Warmbrodt and Lara Wiggert. Biotechnology Information Center. May 1992. Updates Q.B. 91-107.

**Q.B.—92-49.** Rural Entrepreneurship and Small Business Development, January 1980-March 1992. 249 citations in English. Prepared by Patricia La Caille John. Rural Information Center. May 1992. Updates Q.B. 91-116.

## Special Reference Briefs

**S.R.B.—92-09.** Science and Technology Policy. Prepared by Takefumi Tanaka and Kathleen C. Hayes. Technology Transfer Information Center. April 1992.

**S.R.B.—92-10.** Food Service Management: Audiovisuals and Printed Materials. Prepared by Marcy Schweibinz. Food and Nutrition Information Center. April 1992.

**S.R.B.—92-11.** Cultural Perspectives on Food and Nutrition. Prepared by Cynthia Roberts. Food and Nutrition Information Center. April 1992.

## Animal Welfare Information Center Series

**A.W.I.C.—9.** Animal Welfare Legislation: Bills and Public Laws, 1991. Prepared by Cynthia Petrie Smith, Jennifer Lyons-Carter, and Karen J. Clingerman. Animal Welfare Information Center. May 1992.

## Rural Information Center Publication Series

**R.I.C.P.S.—5.** Affordable Community Housing. Compiled by Thomas P. Shilts and annotated by Jonathan D. Shimmons. Rural Information Center. December 1991.

**R.I.C.P.S.—7.** Rural Health Services Funding: A Resource Guide. Compiled by Louise Murphy Simmons. Rural Information Center. December 1991.



## Miscellaneous

ALF (Agricultural Library Forum); The National Agricultural Library's Electronic Bulletin Board System: Brief Guide. Revised May 1992. Prepared by Rebecca Thompson, Information Centers Branch, and Karl Schneider, Reference and User Services Branch. May 1992.

Environmental Enrichment Information Resources for Nonhuman Primates: 1987-1992. Prepared by Janice Swanson and others, Animal Welfare Information Center; Fritz P. Gluckstein, National Institutes of Health; Jackie Pritchard, University of Washington. May 1992.

Food and Nutrition Information Center. Microcomputer Software Collection. Prepared by Natalie Updegrove. June 1992. Updates June 1991 list.

Index to USDA Miscellaneous Publications: Numbers 1-1479. Prepared by Ellen Kay Miller. D.C. Reference Center. June 1992.

USDA Agriculture Handbooks: Numbers 1-690. Prepared by Ellen Kay Miller. D.C. Reference Center. May 1992.

*Australian Veterinary Journal*. Vol. 52 (2-3), year unknown: Vol. 58-59, 1982-83

*Poultry Science*. Vol. 30-40, 1951-61.

*Review of Applied Mycology*. Vol. 1-38, 1922-59.

*Soil Science Society of America*. Journal. Vol. 40-49, 1976-85.

*Soil Science Society of America*. Proceedings. Vol. 36-39, 1972-75.

*Southern Journal of Agricultural Economics*. Vol. 7-19, 1975-87.



**New Serials  
Received  
at NAL**

*Agricultural and Resource Policy Forum*. Auburn, AL: Auburn University, College of Agriculture. Irregular. Vol. 1, no. 1 (Jan. 1989)-  
HD1775.A2A37

*Annual Report*. Regina: Saskatchewan Agriculture Development Fund. Annual. Oct. 1, 1989/Mar. 31, 1990-  
HG2051.S2A56

*Current Topics in Bioenergetics*. New York: Academic Press. Vol. 1- 1966-  
QH511.S2

*Directory of Japanese Technical Reports / Prepared by the U.S. Department of Commerce, National Technical Information Service, Office of International Affairs*. Springfield, VA: NTIS. Annual. 1989-1990-  
Z7407.J3D57

*Earth Observations and Global Change Decision Making*. Malabar, FL: Krieger Publishing Co. Annual. 1989-  
QC903.E27

*The ERIC Review / U.S. Department of Education, Office of Educational Research and Improvement*. [Rockville, MD]: ACCESS ERIC. Three times a year. Vol. 1, issue 1-1990-  
LB1028.E74

*Food and Bioproducts Processing: Transactions of the Institution of Chemical Engineers, Part C*. Rugby [England]: The Institution; Basingstoke: Hemisphere Pub. Corp. [distributor]. Four issues yearly. Vol. 69, no. C1 (Mar. 1991)-  
TP368.F64



**Publications  
Exchange**

## Surplus Publications

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

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*Agronomy Journal*. Vol. 70-78, 1978-86.

*American Economic Review*. Vol. 63-73, 1973-83.

*American Journal of Botany*. Vol. 59-77, 1972-90.

*Linkages / American Association of State Colleges and Universities.* Washington, DC: The Association. Irregular. Jan. 27, 1989-  
**LB2329.5.L5**

*Methods in Gene Technology.* London, England; Greenwich, CT: JAI Press. Annual. Vol. 1 (1991)-  
**QH442.M47**

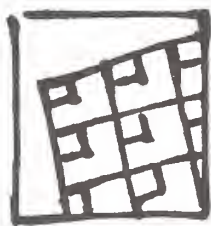
*NCIP News.* Washington, DC: Office of Management Studies, Association of Research Libraries. No. 1 (Jan. 1986)-  
**Z671.N34**

*Pennington Center Nutrition Series.* Baton Rouge: Louisiana State University Press. Irregular. Vol. 1- 1991-  
**QP141.A1P46**

*The Plant Journal: for Cell and Molecular Biology.* Oxford: Blackwell Scientific Publishers and BIOS Scientific Publishers in Association with the Society for Experimental Biology. Bimonthly. Vol. 1, no. 1 (July 1991)-  
**QK710.P68**

*Progressive Farming.* Islamabad: Pakistan Agricultural Research Council. Bimonthly. Vol. 1, no. 1 (Jan./Feb. 1981)-  
**S3.P76**

*Regional Notes / Center for Tropical and Subtropical Aquaculture.* Waimanalo, HI: The Center. Quarterly. Vol. 1, no. 1 (Aug. 1989)-  
**SH134.6.R43**



## **Agriculture Datebook**

**July 20-24:** First World Congress on Medicinal and Aromatic Plants for Human Welfare. Maastricht, Netherlands. Contact: Dr. Chlodwig Franz, Vorstand des Instituts für Botanik und Lebensmittelkunde der Veterinärmedizinischen Universität Wien, 1030 Vienna, Austria.

**July 21:** American School Food Service Association Meeting. Minneapolis, MA. Contact: 703-305-2062.

**July 21-25:** 6th International Conference on Human Animal Interactions, Animals and Us. Montreal, Canada. Contact: 613-747-0262.

**July 21-25:** Science Innovation '92: New Techniques and Instruments in Biomedical Research. San Francisco, CA. Contact: AAAS, 202-326-6450.

**July 23-24:** International AgBiotech Training Seminar/Workshop on Gene Qualification by Objectives. Ames, IA. Contact: Dr. John Mee, Biotechnica International,

Honolulu, HI 96822, 806-395-8789, FAX 808-395-8691.

**July 23-26:** American Association of Nurserymen Convention. Columbus, OH. Contact: Bryan Champion, 216-259-2725.

**July 24-26:** Mountain Plains Meat Association's Annual Convention. Copper Mountain, CO. Contact: 303-837-1280.

**July 24-27:** Soybean Expo '92. Houston, TX. Contact: American Soybean Association, 800-688-SOYA, ext. 276.

**July 25-27:** UCSC Farm and Garden 25th Anniversary. California. Contact: Beth Benjamin, P.O. Box 178, Boulder Creek, CA, 95006.

**July 25-30:** National Conference of State Legislatures Annual Meeting & Exhibition. Cincinnati, OH; Convention Center. Contact: NCSL, 303-863-8003.

**July 26-31:** 5th International Congress on Cell Biology. Madrid, Spain. Contact: Organization Secretariat, Tilsea, Londres 39, 28028 Madrid, Spain.

**July 27-28:** Ninth Annual Meeting of the Mid-Atlantic Plant Molecular Biology Society. Beltsville, MD: ARS. Contact: Susan Koehler, 301-504-6091.

**July 30-31:** Southern and Eastern REA Borrowers Association Annual Meeting. Washington, DC.; Willard Hotel. Contact: 202-720-4581.

**July 30-August 1:** Participatory On-farm Research and Education for Agricultural Sustainability. Champaign, IL; University of Illinois. Contact: John Gerber, 217-244-4232.

**July 31-August 8:** American Society for Horticultural Science Annual Meeting. Honolulu, HI. Contact: Catherine Cavaletto, Dept. Horticulture, University of Hawaii, 3190 Maile Way, Honolulu, HI 96822, 808-956-8351.

**August 1-5:** American Veterinary Medical Association (AVMA). Boston, MA. Contact: Bob Schlax, 708-605-8070.

**August 2-3:** National Association of Conservation Districts North-Central Region Meeting. Wheeling, WV. Contact: 202-720-4525.

**August 3-5:** REA Annual National Conference. Kansas City, MO. Contact: 202-720-5277.

**August 4-7:** International Symposium on Agricultural Techniques in Cold Regions. University of Alberta, Edmonton, Alberta. Contact: David Chanasyk, 403-492-3242; FAX: 403-492-1797.

**August 6-11:** American Society of Animal Science (ASAS) Annual Meeting. Pittsburgh, PA. Contact: 217-356-3182.

**August 7-8:** International Agricultural Trade Research Consortium. Annapolis, MD. Contact: 202-720-4164.

**August 8-11:** American Society of Animal Science (ASAS) Annual Meeting. Pittsburgh, PA. Contact: Molly Kelley, 217-356-3182.

**August 8-12:** Annual Meeting of the American Phytopathological Society. Portland, OR; Oregon Convention Center. Contact: Joan Schimmi, 612-454-7250.

**August 8-12:** 1992 Third Annual Aquaculture Session at Animal Science Meeting. Pittsburgh, PA. Contact: Lou Smith, 301-344-3925 or Bud Harmon, 317-494-4809.

**August 8-15:** Environmental Soil Science. University of Alberta, Edmonton, Alberta. Contact: Yash Kalra, 403-435-7210; FAX: 403-435-7359.

**August 9-11:** Western Association of State Departments of Agriculture Annual Meeting. Park City, UT; Stein Erik-



sen Lodge. Contact: NASDA, 202-628-1566.

**August 9-11: Annual Meeting of the Association of Systematics Collections.** Honolulu, HI. Contact: ASC, 202-628-1500; FAX: 202-347-0072.

**August 9-12: American Agricultural Economics Association Annual Meeting.** Baltimore, MD. Contact: 202-720-4164.

**August 9-12: Resource Management in a Dynamic World, Soil and Water Conservation Soc. Ann. Meet.** Baltimore, MD. Contact: Tony Vrana, SWCS, 515-289-2331.

**August 9-13: 43rd American Institute of Biological Sciences (AIBS) Annual Meeting.** Honolulu, HI. Contact: Louise Salmon, 202-628-1500 or 1-800-992-2427.

**August 9-13: Symposia on Physiology of Tropical Algae and Industrial Phycology: Microalgae Processes and Products.** At 43rd AIBS Annual Meeting. Contact: Linda Graham, 608-262-2640; FAX: 608-262-7509.

**August 9-14: American Chemical Society, "Natural and Derived Pest Management Agents."** Snowbird, UT. Contact: Paul Hedin, 601-323-2230.

**August 10-14: 39th Annual Pathology of Laboratory Animals.** Contact: 301-427-5231.

**August 11: REA CPA Symposium.** Baltimore, MD. Contact: 202-720-5277.

**August 12: Council of Governors' Policy Advisors Academy on Rural Competitiveness.** Bellevue, WA. Contact: 202-720-8653.

**August 12: Soil and Water Conservation Society Annual Meeting.** Baltimore, MD. Contact: 202-720-4525.

**August 12-14: Joint Council Meeting.** New Brunswick, NJ. Contact: 202-720-4164.

**August 13: NE-9 RTAC Meeting.** Geneva, NY. Contact: Dr. Stephen Kresovich, 315-787-2333, FAX 315-787-2397.

**August 13-15: National Symposium on Dairy Goat Production and Marketing.** Oklahoma City, OK. Contact: Thian Hor Teh, Kika de la Garza Institute for Goat Research, P.O. Box 730, Langston University, Langston, OK 73050.

**August 14-16: Natural Organic Farmers Association 18th Annual Summer Conference.** Amherst, MA; Hampshire College. Contact: Julie Rawson, NOFA, 508-355-2853.

**August 15-21: 17th International Congress for Genetics.** Birmingham, UK. Contact: Derek Smith, University of Birmingham, Birmingham, B152TT, UK.

**August 16-20: The International Symposium on Cultivation of Atlantic Salmon.** Bergen, Norway. Contact: Institute of Marine Research, phone: 47-5238000; FAX: 47-5238333 or 47-5366143.

**August 16-21: Fourteenth International Seaweed Symposium.** Brest and St. Malo, France. Contact: Secretariat, Institut d'Etudes Marines, phone 33-98317441 or 33-98316129, FAX 33-98316131.

**August 16-21: Ninth International Biotechnology Congress.** Arlington, VA. Contact: Congress Office, American Chemical Society, 1155 Sixteenth Street, N.W., Room 205, Washington, DC 20036. 202-872-4485.

**August 17-21: SCS Annual State Conservationists Conference.** San Antonio, TX. Contact: 202-720-4525.

**August 19-22: The American Cheese Society's 9th Annual Conference.** Madison, WI. Contact: Bridgett Watkins,

ACS, 212-727-7939.

**August 22-25: National Livestock and Meat Board Conference and Summer Meeting.** Dallas, TX. Contact: 312-467-5520.

**August 23-28: Congress of the European Society of Agronomy.** Coventry, England. Contact: A. Scaife, ESA Congress Office, Horticulture Research International, Wellesbourne, Warwicks, CV35 9EF, U.K. Tel: 0789 470382; FAX: 0789 4705522.

**August 24-28: Internat'l Symposium on Population Genetics and Gene Conservation of Forest Trees.** Bordeaux, France. Contact: 33-56-68-03-13; FAX: 33-56-68-02-23.

**August 25-28: First International Scientific Meeting of the Cassava Biotechnology Network (CBN).** Cartagena de Indias, Colombia. Contact: Dr. William M. Roca, CIAT, Apartado Aéreo 6713, Cali, Colombia. Tel: 57-23 675050, ext. 443; FAX: 57-23 647243.

**August 26-27: USDA's ABRAC.** Arlington (Rosslyn), VA. Contact: OAB, 703-235-4419.

**August 27-28: Cooperative Finance Corporation Symposium Panel Discussion.** Washington, DC. Contact: 202-720-5277.

**August 27-28: NIH Regional Workshop.** Pocatello, ID. Contact: Jim Peck, 208-236-3895.

**August 28-September 3: 15th International Botanical Congress.** Tokyo, Japan. Contact: M. Furuya, Frontier Research Programs, Riken Institute, Wako City, 351-01, Japan.

**August 30: Nat'l Conference on Irrigation/Induced Erosion and Water Quality.** Boise, ID. Contact: 202-720-4525.

**September 1: XVI REA CPA Symposium.** San Diego, CA. Contact: 202-720-5277 or 202-720-4581.

**September 1-5: 40th Annual Congress of the Society for Medicinal Plant Research.** Trieste, Italy. Contact: Organizing Secretariat, Society for Medicinal Plant Research, Via S. Nicolo 14, 34121 Trieste, Italy.

**September 3-4: European Institute of Technology Workshop: Alternatives to Animal Experimentation.** Florence, Italy. Contact: The Institute, Tel: +39-55-217856/214226; FAX: +39-55-218908.

**September 7-10: International Symposium on Fish Nutrition and Feeding.** Santiago, Chile. Contact: Juan Jose Romero, FAX: 562-242-6900.

**September 8: SCAW Workshop: Information Resources on Animal Issues.** Ellicott City, MD; Turf Valley Hotel. Contact: SCAW, 301-654-6390.

**September 8-10: International Sunflower Conference.** Pisa, Italy. Contact: Conference Secretariat, c/o Istituto di Agronomia, Via S. Michele, 2, 56100 Pisa, Italy, Tel: 050-571565; FAX: 050-540633.

**September 9 & 10: Ninth Annual Fall Field Days.** Thompson Farm, Rt. 2, Box 132, Boone, IA. Contact: Thompson Field Days, c/o Barbara Bruno, Rodale Institute, 222 Main Street, Emmaus, PA 18098, 215-683-6383.

**September 9-10: American Association for Laboratory Animal Science (AALAS).** Northeast Regional Branch. Turf Valley, MD. Contact: Betty Fatzie, 301-468-0250.

**September 9-11: Food Safety: Who is Responsible? An Animal Source Food Safety Workshop.** Washington, DC; Quality Hotel. Contact: 703-231-5182 or Richard Reynnells, USDA/ES, 202-720-4087.

(See Agriculture Datebook, p. 19, col. 2)

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## Volunteers



photo: J. Swab

Judith Ho of NAL's Special Collections staff works with Steve Shapiro, a library science masters student at the University of Maryland, who as a volunteer helped with several projects for the Library. Here they are working on a register of files from the U. S. National Arboretum. For more information on volunteer activities at NAL and about the people who participate in the volunteer programs, see the articles on pages 1-7 of this issue of **ALIN**.

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